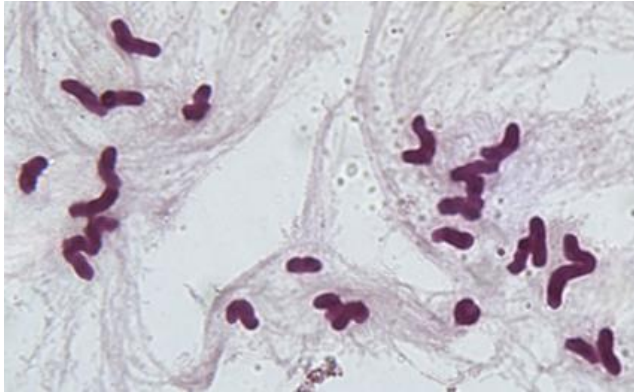


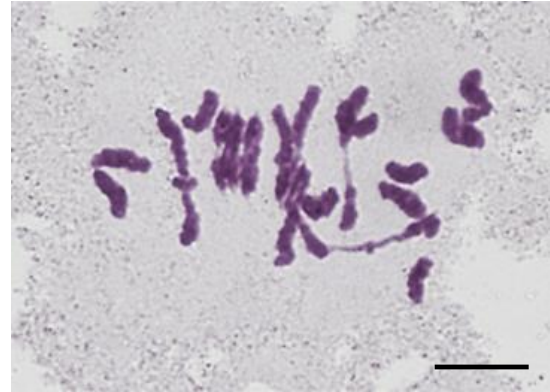
Licensing MLH1 sites for crossover during meiosis

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Wheat-Rye *Ph1+*



Wheat-Rye *Ph1-*



Genotype	No. of cells	Chiasmata/Cell
Wheat-Rye <i>Ph1+</i> n = 28	500	0.58
Wheat-Rye <i>Ph1-</i> n = 28	100	7.78

Supplementary Figure 1: Meiotic associations at metaphase I in wheat-rye hybrids in the presence (*Ph1+*) and absence (*Ph1-*) of the *Ph1* locus. Bar = 10 μ m.

Supplementary Table 1: Meiotic associations at metaphase I in wheat in the presence (*Ph1+*) and absence (*Ph1-*) of the *Ph1* locus.

Genotype	Cell No.	Rod bivalents	Ring bivalents	Genotype	Cell No.	Univalents	Rod bivalents	Ring bivalents	Trivalents	Quadrivalents
Wheat <i>Ph1+</i> 2n = 42	1	1	20	Wheat <i>Ph1-</i> 2n = 42	1	0	5	16	0	0
	2	0	21		2	2	5	13	0	1
	3	0	21		3	2	5	13	0	1
	4	0	21		4	0	6	13	0	1
	5	4	17		5	2	1	19	0	0
	6	0	21		6	0	6	15	0	0
	7	2	19		7	0	5	16	0	0
	8	0	21		8	2	4	14	0	1
	9	1	20		9	0	7	14	0	0
	10	2	19		10	2	4	14	0	1
	11	1	20		11	0	5	16	0	0
	12	1	20		12	0	5	16	0	0
	13	2	19		13	0	5	16	0	0
	14	0	21		14	0	5	16	0	0
	15	1	20		15	0	3	14	0	2
	16	1	20		16	1	3	16	1	0
	17	4	17		17	1	3	12	1	2
	18	1	20		18	0	3	18	0	0
	19	0	21		19	2	7	10	2	0
	20	2	19		20	1	4	15	1	0
	21	0	21		21	0	7	12	0	1
	22	0	21		22	0	5	16	0	0
	23	0	21		23	0	3	16	0	1
	24	2	19		24	4	4	15	0	0
	25	1	20		25	2	6	14	0	0
	26	1	20		26	0	5	16	0	0
	27	0	21		27	0	7	14	0	0
	28	2	19		28	2	5	15	0	0
	29	0	21		29	1	4	15	1	0
	30	1	20		30	0	5	16	0	0
	Mean	1 (0-4)	20 (17-21)		Mean	0.8 (0-4)	4.73 (1-7)	14.83 (10-19)	0.2 (0-2)	0.37 (0-2)

Values in parentheses indicate the range of variation between cells.